

Expensive with a  
Nouray Connect  
and Grant-Tela Connect  
Built By John Bader  
with Connects By Tom Bader  
By Ikeg miter

# Bedini Energy Device for Space Flight

9 July 1984

By: Eike Mueller / John Bedini

# PROJECT DESCRIPTION REPORT

## BEDINI DEVICE FOR SPACEFLIGHT

Revision 5, 7/9/84

Prepared by EIKE MUELLER

### DESCRIPTION DATA FIELDS:

Name of project=BEDINI DEVICE FOR SPACEFLIGHT  
 Leader of project=E.Mueller / J.Bedini  
 Time scale=Months  
 Start date=7/2/84  
 Direct cost units=K\$  
 Manpower cost units=\$  
 Find critical path=Yes  
 File drive and name=B:BSpace

### SKILL CATEGORIES:

Description	\$/Man-Month	Man-Months	Total Cost
1st skill category=MANAGER	5000	12	\$60K
2nd skill category=PROJECT ENGINEER	5000	12	\$60K
3rd skill category=TECHNICIAN 1	4000	9	\$36K
4th skill category=TECHNICIAN 2	3000	9	\$27K
5th skill category=SECRETARY	2000	5	\$10K
6th skill category=	0	0	\$0
7th skill category=	0	0	\$0
8th skill category=	0	0	\$0
9th skill category=	0	0	\$0

### WORKING HOURS:

Begin work=8  
 Start lunch=12  
 Finish lunch=13  
 End work=17

### WORKING DAYS:

Days of the week=MTuWThF

### HOLIDAYS:

Holiday list=1/1/85 5/27/85 7/4/84 9/3/84 11/22/84 12/25/84  
 2/22/85

### SCHEDULE SUMMARY:

Completion date=9/2/85  
 Number of jobs=15  
 Total manpower=47 Man-Months  
 Manpower cost=\$193000  
 Direct cost=\$40000  
 Total cost=\$233000



JOB DESCRIPTION REPORT

BEDINI DEVICE FOR SPACEFLIGHT

Revision 5, 7/9/84

Prepared by EIKE MUELLER

Job #1, WRITE DRAFT PROJECT PLAN

\*\*\*\*\* CRITICAL \*\*\*\*\*

Duration=2 Months  
Completed=No  
On critical path=Yes  
Slack time=none

Earliest start=7/2/84  
Earliest finish=9/2/84  
Latest start=7/2/84  
Latest finish=9/2/84

Prerequisites=none

Manpower skills=none

Total effort=none  
Manpower cost=\$0  
Direct cost=\$0

Job #2, PREPARE LETTER TO ESA/BMFT

Duration=1 Month  
Completed=No  
On critical path=No  
Slack time=1 Month

Earliest start=7/2/84  
Earliest finish=8/2/84  
Latest start=8/2/84  
Latest finish=9/2/84

Prerequisites=none

Manpower skills=none

Total effort=none  
Manpower cost=\$0  
Direct cost=\$0

Job #3, BUILD DEMO PROTOTYPE

\*\*\*\*\* CRITICAL \*\*\*\*\*

Duration=2 Months  
Completed=No  
On critical path=Yes  
Slack time=none

Earliest start=7/2/84  
Earliest finish=9/2/84  
Latest start=7/2/84  
Latest finish=9/2/84

Prerequisites=none

Manpower skills=none

Total effort=none  
Manpower cost=\$0  
Direct cost=\$0

Job #4, TRIP TO EUROPE & DEMO  
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\*\*\*\*\* CRITICAL \*\*\*\*\*

Duration=1 Month  
Completed=No  
On critical path=Yes  
Slack time=none

Earliest start=9/2/84  
Earliest finish=10/2/84  
Latest start=9/2/84  
Latest finish=10/2/84

Prerequisites=Job #1, WRITE DRAFT PROJECT PLAN  
Job #2, PREPARE LETTER TO ESA/BMFT  
Job #3, BUILD DEMO PROTOTYPE

Manpower skills=Skill #1, MANAGER, 1 @ 5000\$ per Man-Month  
Skill #2, PROJECT ENGINEER, 1 @ 5000\$ per Man-Month

Total effort=2 Man-Months  
Manpower cost=\$10000  
Direct cost=\$6000

Job #5, NEGOTIATIONS WITH ESA  
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\*\*\*\*\* CRITICAL \*\*\*\*\*

Duration=1 Month  
Completed=No  
On critical path=Yes  
Slack time=none

Earliest start=10/2/84  
Earliest finish=11/2/84  
Latest start=10/2/84  
Latest finish=11/2/84

Prerequisites=Job #4, TRIP TO EUROPE & DEMO

Manpower skills=Skill #1, MANAGER, 1 @ 5000\$ per Man-Month  
Skill #2, PROJECT ENGINEER, 1 @ 5000\$ per Man-Month

Total effort=2 Man-Months  
Manpower cost=\$10000  
Direct cost=\$0

Job #6, CONTRACT GO-AHEAD  
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\*\*\*\*\* CRITICAL \*\*\*\*\*

Duration=0 Months  
Completed=No  
On critical path=Yes  
Slack time=none

Earliest start=11/2/84  
Earliest finish=11/2/84  
Latest start=11/2/84  
Latest finish=11/2/84

Prerequisites=Job #5, NEGOTIATIONS WITH ESA

Manpower skills=none

Total effort=none  
Manpower cost=\$0  
Direct cost=\$0



Job #7, UPDATE OF PROJECT PLAN  
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\*\*\*\*\* CRITICAL \*\*\*\*\*

Duration=1 Month  
Completed=No  
On critical path=Yes  
Slack time=none

Earliest start=11/2/84  
Earliest finish=12/2/84  
Latest start=11/2/84  
Latest finish=12/2/84

Prerequisites=Job #6, CONTRACT GO-AHEAD

Manpower skills=Skill #1, MANAGER, 1 @ 5000\$ per Man-Month

Total effort=1 Man-Months  
Manpower cost=\$5000  
Direct cost=\$0

Job #8, BUILD PROTOTYPE  
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\*\*\*\*\* CRITICAL \*\*\*\*\*

Duration=4 Months  
Completed=No  
On critical path=Yes  
Slack time=none

Earliest start=11/2/84  
Earliest finish=3/2/85  
Latest start=11/2/84  
Latest finish=3/2/85

Prerequisites=Job #6, CONTRACT GO-AHEAD

Manpower skills=Skill #2, PROJECT ENGINEER, 1 @ 5000\$ per Man-Month  
Skill #3, TECHNICIAN 1, 1 @ 4000\$ per Man-Month  
Skill #4, TECHNICIAN 2, 1 @ 3000\$ per Man-Month

Total effort=12 Man-Months  
Manpower cost=\$48000  
Direct cost=\$8000

Job #9, TYPE & PRESENT PROJECT PLAN  
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\*\*\*\*\* CRITICAL \*\*\*\*\*

Duration=1 Month  
Completed=No  
On critical path=Yes  
Slack time=none

Earliest start=12/2/84  
Earliest finish=1/2/85  
Latest start=12/2/84  
Latest finish=1/2/85

Prerequisites=Job #7, UPDATE OF PROJECT PLAN

Manpower skills=Skill #1, MANAGER, 1 @ 5000\$ per Man-Month  
Skill #5, SECRETARY, 1 @ 2000\$ per Man-Month

Total effort=2 Man-Months  
Manpower cost=\$7000  
Direct cost=\$0

Job #10, UPDATE PROJECT PLAN & DOC'S

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\*\*\*\*\* CRITICAL \*\*\*\*\*

Duration=2 Months  
Completed=No  
On critical path=Yes  
Slack time=none

Earliest start=1/2/85  
Earliest finish=3/2/85  
Latest start=1/2/85  
Latest finish=3/2/85

Prerequisites=Job #9, TYPE & PRESENT PROJECT PLAN

Manpower skills=Skill #1, MANAGER, 1 @ 5000\$ per Man-Month  
Skill #5, SECRETARY, 1 @ 2000\$ per Man-Month

Total effort=4 Man-Months  
Manpower cost=\$14000  
Direct cost=\$0

Job #11, PRESENT PROTOTYPE & DOCUMENTS

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\*\*\*\*\* CRITICAL \*\*\*\*\*

Duration=1 Month  
Completed=No  
On critical path=Yes  
Slack time=none

Earliest start=3/2/85  
Earliest finish=4/2/85  
Latest start=3/2/85  
Latest finish=4/2/85

Prerequisites=Job #8, BUILD PROTOTYPE  
Job #9, TYPE & PRESENT PROJECT PLAN  
Job #10, UPDATE PROJECT PLAN & DOC'S

Manpower skills=Skill #1, MANAGER, 1 @ 5000\$ per Man-Month  
Skill #2, PROJECT ENGINEER, 1 @ 5000\$ per Man-Month  
Skill #3, TECHNICIAN 1, 1 @ 4000\$ per Man-Month  
Skill #4, TECHNICIAN 2, 1 @ 3000\$ per Man-Month  
Skill #5, SECRETARY, 1 @ 2000\$ per Man-Month

Total effort=5 Man-Months  
Manpower cost=\$19000  
Direct cost=\$6000



Job #12, MANUFACTURE FLIGHT MODEL

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\*\*\*\*\* CRITICAL \*\*\*\*\*

Duration=1 Months  
Completed=No  
On critical path=Yes  
Slack time=none

Earliest start=4/2/85  
Earliest finish=8/2/85  
Latest start=4/2/85  
Latest finish=8/2/85

Prerequisites=Job #11, PRESENT PROTOTYPE & DOCUMENTS

Manpower skills=Skill #1, MANAGER, 1 @ 5000\$ per Man-Month  
Skill #2, PROJECT ENGINEER, 1 @ 5000\$ per Man-Month  
Skill #3, TECHNICIAN 1, 1 @ 4000\$ per Man-Month  
Skill #4, TECHNICIAN 2, 1 @ 3000\$ per Man-Month

Total effort=16 Man-Months  
Manpower cost=\$68000  
Direct cost=\$12000

Job #13, UPDATE DOCUMENTATION

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Duration=1 Month  
Completed=No  
On critical path=No  
Slack time=3 Months

Earliest start=4/2/85  
Earliest finish=5/2/85  
Latest start=7/2/85  
Latest finish=8/2/85

Prerequisites=Job #11, PRESENT PROTOTYPE & DOCUMENTS

Manpower skills=Skill #5, SECRETARY, 1 @ 2000\$ per Man-Month

Total effort=1 Man-Months  
Manpower cost=\$2000  
Direct cost=\$0

Job #14, DELIVER H/W & DOCUMENTATION

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\*\*\*\*\* CRITICAL \*\*\*\*\*

Duration=1 Month  
Completed=No  
On critical path=Yes  
Slack time=none

Earliest start=8/2/85  
Earliest finish=9/2/85  
Latest start=8/2/85  
Latest finish=9/2/85

Prerequisites=Job #12, MANUFACTURE FLIGHT MODEL  
Job #13, UPDATE DOCUMENTATION

Manpower skills=Skill #1, MANAGER, 1 @ 5000\$ per Man-Month  
Skill #2, PROJECT ENGINEER, 1 @ 5000\$ per Man-Month

Total effort=2 Man-Months  
Manpower cost=\$10000  
Direct cost=\$8000



Job #15, END OF H/W & DOC. PHASE  
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\*\*\*\*\* CRITICAL \*\*\*\*\*

Duration=0 Months  
Completed=No  
On critical path=Yes  
Slack time=none

Earliest start=9/2/85  
Earliest finish=9/2/85  
Latest start=9/2/85  
Latest finish=9/2/85

Prerequisites=Job #14, DELIVER H/W & DOCUMENTATION

Manpower skills=none

Total effort=none  
Manpower cost=\$0  
Direct cost=\$0

# COLUMNAR JOB REPORT

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 BEDINI DEVICE FOR SPACEFLIGHT  
 Revision 5, 7/9/84  
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JOB	DURATION	COMPLETE	EARLY START	EARLY FINISH	LATE START	LATE FINISH	SLACK TIME
1	2	No	0	2	0	2	0
2	1	No	0	1	1	2	1
3	2	No	0	2	0	2	0
4	1	No	2	3	2	3	0
5	1	No	3	4	3	4	0
6	0	No	4	4	4	4	0
7	1	No	4	5	4	5	0
8	4	No	4	8	4	8	0
9	1	No	5	6	5	6	0
10	2	No	6	8	6	8	0
11	1	No	8	9	8	9	0
12	4	No	9	13	9	13	0
13	1	No	9	10	12	13	3
14	1	No	13	14	13	14	0
15	0	No	14	14	14	14	0

MANI DEVICE FOR SPACEFLIGHT, Revision 5, 7/9/84  
Prepared by EIKE MUELLER

Job Description	1984						1985												1986
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
1 WRITE DRAFT PROJECT PLAN	0=====																		
2 PREPARE LETTER TO ESA/BNFT	0---->....																		
3 BUILD DEMO PROTOTYPE	0=====																		
4 TRIP TO EUROPE & DEMO			>====																
5 NEGOTIATIONS WITH ESA				>====															
6 CONTRACT GO-AHEAD					#														
7 UPDATE OF PROJECT PLAN					>====														
8 BUILD PROTOTYPE					>=====														
9 TYPE & PRESENT PROJECT PLAN						>====													
10 UPDATE PROJECT PLAN & DOC'S							>=====												
11 PRESENT PROTOTYPE & DOCUMENTS									>====										
12 MANUFACTURE FLIGHT MODEL										>=====									
13 UPDATE DOCUMENTATION										>-----									
14 DELIVER H/W & DOCUMENTATION														>====					
15 END OF H/W & DOC. PHASE														X					
MANAGER=0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
PROJECT ENGINEER=0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
TECHNICIAN 1=0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
TECHNICIAN 2=0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
SECRETARY=0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
Total manpower level=0	0	2	2	4	5	5	5	5	5	4	4	4	2	0	0	0	0	0	0
Manpower cost=0	0	10K	10K	17K	19K	19K	19K	19K	19K	17K	17K	17K	10K	0	0	0	0	0	0
Direct cost=0	0	6K	0	8K	0	0	0	6K	12K	0	0	0	8K	0	0	0	0	0	0
Total cost=0	0	16K	10K	25K	19K	19K	19K	25K	31K	17K	17K	17K	18K	0	0	0	0	0	0

Symbol - Explanation

- >----> Duration of a normal job
- >....> Slack time for a normal job
- >====> Duration of a critical path job
- >:::~> Duration of a completed job
- # Job with zero duration
- 0----> Job with no prerequisites
- >----X Job with no successors



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